

Figure 1 consists of 12 histograms, labeled (a) through (l), arranged vertically. Each histogram shows the frequency of genera for a specific number of species per genus (S/G). The x-axis for all histograms is 'S/G' with values 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20. The y-axis is 'Number of genera' with a scale from 0 to 100. The histograms show a general trend where the number of genera is highest for S/G = 1 and decreases as S/G increases. The distributions are generally skewed to the right. The histograms are: (a) all species, (b) all genera, (c) all families, (d) all orders, (e) all classes, (f) all phyla, (g) all kingdoms, (h) all domains, (i) all eukaryotes, (j) all prokaryotes, (k) all fungi, and (l) all plants.

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Anne Ruy

BINDING METHOD

PARATHYROID HORMONE RECEPTOR AND DNA ENCODING SEQUENCE

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Background of the Invention

Partial funding of the work described herein was provided by the U.S. Government, which has certain rights to the invention.

The invention relates to endocrine receptors.

A crucial step in the expression of hormonal action is the interaction of hormones with receptors on the plasma membrane surface of target cells. The formation of hormone-receptor complexes allows the transduction of extracellular signals into the cell to elicit a variety of biological responses. For example, binding of a hormone such as follicle stimulating hormone (FSH), luteinizing hormone (LH), thyroid stimulating hormone (TSH), and chorionic gonadotropin (CG), to its cell surface receptor induces a conformational change in the receptor, resulting in the association of the receptor with a transductor molecule, the stimulatory guanine nucleotide (GTP) binding protein, a component of which is (G_s). This association stimulates adenylate cyclase activity which in turn triggers other cellular processes such as protein phosphorylation, steroid synthesis and secretion, and the modulation of ion flux. Binding of other hormones, including arginine vasopressin (VP), angiotensin II, and norepinephrine, to their cell surface receptors results in the activation of other types of GTP binding proteins components such as (G_p), which in turn stimulates the activity of the enzyme phospholipase C. The products of phospholipase C hydrolysis initiate a complex cascade of cellular events, including the

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PATENT

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Gino V. Segre et al. Art Unit:
Serial No.: Examiner:
Filed : HEREWITH
Title : PARATHROID HORMONE RECEPTOR AND DNA ENCODING SAME
Assistant Commissioner for Patents
Washington, DC 20231

11/24/98
JC617 U.S. PTO

PRELIMINARY AMENDMENT

Prior to examination, please amend the application as follows:

In the Specification:

Insert the following on page 1, before the first

paragraph: -This application is a divisional of U.S. Application Serial No. 08/471,494, filed June 6, 1995, ^{now U.S. Patent 5,840,853,} and U.S. Application Serial No. 08/468,249, filed June 6, 1995, ^{now U.S. Patent 5,886,148,} both of which are divisionals of U.S. Application Serial No. 07/864,475, ^{filed April 6, 1992,} now U.S. Patent No. 5,494,806, which was a continuation-in-part of U.S. Application Serial No. 07/681,702, filed April 5, 1991, and now abandoned.--

In the Claims:

Cancel claims 2-5, 9, 13-19, 22 and 26-38.

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Date of Deposit November 24, 1998

I hereby certify under 37 CFR 1.10 that this correspondence is being deposited with the United States Postal Service as "Express Mail Post Office To Addressee" with sufficient postage on the date indicated above and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

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